

## 2004 – A DOUBLE MILESTONE *COMING OF AGE IN FLORISSANT*

**10<sup>th</sup> Anniversary Friends' Field Seminars 1994-2004**  
**35<sup>th</sup> Anniversary Florissant Fossil Beds N.M. 1969-2004**

***You are invited...* to fun-filled learning adventures in an engaging outdoor environment, and to celebrate 10 years of achievement. Sign up for any or all of these specially selected 2004 seminars!**

This year, 2004, marks the 10<sup>th</sup> anniversary of the Friends seminars as well as the 35<sup>th</sup> anniversary of the monument itself. In 1994, as Florissant Fossil Beds National Monument celebrated its 25<sup>th</sup> anniversary, the supporting association, Friends of Florissant Fossil Beds, sponsored its first field seminars for the public. These featured such outstanding instructors as Richard and Linda Beidleman, and Beatrice Willard, the latter one of three women who were, in large part, responsible for spearheading the effort to establish the fossil beds as a national monument. The seminars have grown in scope, offering a stimulating and diverse selection of earth sciences, natural history, and humanities themes. They are geared to the public interest. Teachers taking the classes may also receive academic credit if they choose to do so.

The Friends group is not a Field Institute such as those found in many of the larger parks in the National Park system. It is a non-profit organization comprised of people just like yourself who are strongly dedicated to the mission of supporting the monument through a number of dynamic, innovative, and creative programs. All proceeds assist the National Park Service at Florissant Fossil Beds in protecting the world-class fossils and educating the public about their significance. A vital aspect of the partnership between the monument and the Friends organization is that of promoting, through excellence in education and interpretation, a desire to learn about, preserve and protect the beauty and uniqueness of the natural world. Field-based, experiential seminars in the natural outdoor university that the area offers have brought outstanding instructors who are recognized experts in their fields, together with those who find challenge, inspiration, and an enthusiastic sense of commitment in the lifelong process of learning and discovery.

***We want to thank you...for your ongoing support of the Friends of Florissant Fossil Beds field seminars. We hope that you will continue to grow and learn with us.***



## ADAMS STATE COLLEGE

Our association with Adams State College, Division of Extended Studies, in Alamosa, Colorado, is entering its fourth year. Through this excellent program we offer graduate credit for teachers attending the seminar series. A separate application form is required for each seminar taken; you may photocopy (or download from our website) as many as you need. Tuition is of course in addition to regular seminar fees. One check to the Friends covers your entire registration and tuition. Sorry, no credit cards. You will receive information on how to obtain your transcript at the seminar.

### REGISTRATION, COSTS and TUITION

#### FRIENDS SEMINAR FEES:

- \$35.00 fee for each 1 day seminar
- \$50.00 fee for each 2-day seminar (Must attend both full days, no split fees or credit)
- \$25.00 discounted fee for current member of Friends, 1 day
- \$40.00 discounted fee for current member of Friends, 2 days

#### ADAMS STATE COLLEGE:

- \$22.50 tuition for ½ credit per 1 day, 7.5 hour class\*
- \$45.00 tuition for 1 full credit per 2 day, 15.0 hour total class\*

**\*Please note: you must attend for all hours shown or no credit will be earned.**

#### BOCES TEACHER RECERTIFICATION

Pikes Peak BOCES of Colorado Springs is the issuing agency. Certificate cost for each seminar is \$5.00. Please indicate that you wish BOCES credit and include the fee for each class with your registration. For teacher recertification credit questions, please contact:

Staff Development Officer Jo Donlon  
Pikes Peak BOCES  
719/570-7474, extension 2092

### HERE'S HOW IT WORKS...

- **Seminars fill quickly** and some classes have size limits so we recommend signing up early. You may join the Friends of Florissant Fossil Beds at the time of registration and take the discounted fee shown above (or see membership information with registration form). You may also wish to renew at that time since discount is extended to current members only. Please complete the registration form provided (or download a copy from our website: [www.nps.gov/flfo](http://www.nps.gov/flfo)) and return it with full payment.
- **If you are a teacher** taking a seminar for credit through ASC, you can also download a copy of the application from that institution from our website. **Include a separate ASC form for each seminar you wish to attend for graduate credit.** Please note that you may not repeat a seminar for credit if you have previously taken and received credit for it. Check titles and content carefully since one or two repeated classes may have a new title or description. Call us if you're in doubt. Adams State College tuition or BOCES recertification fee must be included with seminar registration and fees. Please make check for entire amount payable to Friends of Florissant Fossil Beds. We cannot accept credit cards in payment.
- **Pre-registration by phone** is acceptable, but we will hold only for 10 days for payment. Receipt of payment confirms your space in the seminar.

## REFUND/CANCELLATION POLICY

We reserve the right to cancel any seminar if minimum enrollment is not met, so it's wise to register early. We will make every effort to place participants in another seminar of their choosing or will return the registration fee and ASC tuition/BOCES fee. If you cancel your enrollment for any reason, the following policy will apply: refunds will be given for cancellations received up to one week prior to the seminar, minus a \$5.00 processing fee. No refund is given for cancellation less than a week prior to the seminar.

## What we'll send...How to get here...What you'll need to bring...

- Prior to the seminar, we'll send a syllabus to for-credit participants. Pre-seminar handouts, reading recommendations and additional information about the class will be sent to all registrants if appropriate.
- All seminars begin at the Fowler Education Center at 9 am and end at 5 pm **UNLESS OTHERWISE NOTED. PLEASE READ ALL INFORMATION CAREFULLY. Several seminars may begin at a different time or will meet elsewhere. You are responsible for your transportation in reaching the starting point.**

## Getting here...

- The monument is reached from I-25 in Colorado Springs by taking State Highway 24 west approximately 35 miles to the town of Florissant. Turn south (left) on Teller County Road #1, proceeding about 2 miles where entrance road to the monument will be marked with a large sandstone sign on the west side of the road. Continue about 75' beyond the monument entrance and turn right (west) onto a dirt road (there will be a sign on the gate). The ½ mile road ends at a parking area and the A-frame Fowler Education Center.
- Allow approximately 1-hour drive time from Colorado Springs, at least 2 hours from Denver.
- Seminars will begin on time. We ask that you arrange to arrive about 15 minutes before the start time to allow for check-in. Allow yourself plenty of time for a stress-free arrival.

## What to bring...

Most seminars will be outdoors for a large portion of the class and may require hiking. Be prepared for changeable mountain weather with layered clothing, rain gear, comfortable hiking shoes, hat, sunglasses and sunscreen. Insect repellent is a good idea. Meals are not provided, so bring a sack lunch, snacks, ample drinking water, and a plastic sack to carry away any refuse from your day. Bring a notebook and pen. You may wish to bring binoculars, camera, field lens, or any other items that would enhance your experience.

**A word about transportation during a class afield: "CARPOOL!"** That's right, we're committed to carpooling where possible and necessary. For several seminars, i.e. Gold Belt Tour and Geology of South Park, come prepared to share vehicles to meet parking and time requirements and to minimize traffic and dust problems.

## Please take a moment to read these statements:

- The seminars are educational in nature. In any educational environment, all sides of various issues need to be examined and some of these may prove to be controversial. Views expressed are not necessarily those of the National Park Service, the staff, or Friends of the Fossil Beds, nor are they responsible for their content.
- In most cases, books recommended will be available for purchase at the seminar, or the RMNA bookstore at the Monument.
- Please note that a surcharge of \$3.00 must be included with registration for Geologic History of the Gold Belt Byway seminar.



## 10<sup>TH</sup> ANNIVERSARY SEMINAR SERIES – 2004

**DISCOVERING THE SECRETS OF SOUTHERN ROCKY MOUNTAIN WILDFLOWERS (Southern Rocky Mountain Wildflowers) (1/2 credit) June 12<sup>th</sup>, 9 am to 5 pm, Leigh Robertson, BS** – Join Leigh Robertson, author of Southern Rocky Mountain Wildflowers, and explore the wildflower possibilities of mid-June. Secret places yield unexpected surprises, and flowers vary from year to year. Be prepared to meet familiar friends of the plant world and to encounter some you haven't yet been introduced to. Whether a beginner or a bit more advanced in botany, participants will learn valuable facts about flowers, discover edible and medicinal plants and their uses, and hear the stories behind many wildflower names. Learn how to use various wildflower books and keys. If you've always wanted to know the names and stories of flowers, how to identify them, this is the seminar for you. Be prepared for a day of enchantment and discovery!

**NATURAL HISTORY OF THE FLORISSANT VALLEY 1/2 CREDIT) June 19<sup>th</sup>, 9 am to 5 pm, Richard Beidleman, PhD and Linda Beidleman, MA** –The Beidlemans are legendary, premier naturalists. We are honored to welcome them back once again to guide you on this all-day field trip afoot as they reveal the richness of the montane ecosystem in the Florissant Valley. They will discuss the area's geology and climate, past and present ecosystems, local flora and fauna, and human history. Stories of early naturalists who discovered and named plants and animals of the frontier west will be related. But that begs the humor and delight of the natural raconteur, which is always present when Dick Beidleman is leading a walk. The Beidlemans presented one of the first seminars here ten years ago, and will be on hand as we celebrate the anniversary series. Not to be missed! But sign up early, registration is limited. Suggested equipment list: bird field guide of your choice, binoculars, 10X-hand lens, field notebook, pencil/pen.



**NATIVE PEOPLES OF THE FLORISSANT VALLEY, PAST AND PRESENT (1/2 credit) June 26<sup>th</sup>, 9 am to 5 pm, Kurt Fair and Loya Cesspooch Arrum**

The morning instructor will be Curtis (Curt) Fair, Pike Zone archaeologist of the Pike and San Isabel National Forests, Comanche and Cimarron National Grassland. He will present "Who Passed This Way", using a public archaeology power point presentation, which is structured for audience participation and includes a hands-on material segment. "Who Passed This Way" looks at the migration patterns of Native Americans in the Front Range of Colorado. Curt will mix commentary and a visual timeline to discuss the different occupation periods (Paleo Indian, Archaic, Ceramic, and Ethnographic). Discussions will take place at each of these developmental periods. The portion will focus on the Ute people and their placement on Reservations. As time permits, Curt will conclude with a flint knapping demonstration replicating stone tools of the periods discussed. Instructing the afternoon session will be Loya Cesspooch Arrum, a registered member of the Uintah-Ouray Ute Reservation in Ft. Duchesne, Utah. Loya will begin

by moving into the circle of participants in full Ute regalia, explaining her culture through the various elements of her ceremonial dress. Cesspooch will share some of the ancient Ute legends with the class, first in the lilting Ute language, then in English. Leading participants on a walk through the forests and grasses of the monument, Loya will explain the sacredness of a number of flora and fauna; the cultural significance and connectedness of trees, birds, animals, plants, to the People of the Ute. The class will see, hear, and understand through the eyes of a different culture. Learn about this age-old way of being directly from one whose heritage it is. And what we know of the ancient ones who roamed this part of the country, surviving and living in an amazingly efficient Stone Age technology.

**GEOLOGIC HISTORY OF THE GOLD BELT BYWAY (1 full credit) July 10<sup>th</sup> and 11<sup>th</sup>, 8:00 am to 5:30 pm, Herb Meyer, PhD, and Woody Henry, PhD, Site specialists: Dan Grenard and David Vardiman or Tim Brown** – The Gold Belt National Scenic Byway extends from Florissant at its northern end to Canon City on the south. The area encompasses world famous fossil sites, the remnants of extinct volcanoes, a gold mining district, crystalline basement rocks, layered sedimentary rocks, uplifted mountains and ridges, and deeply eroded canyons. This field-oriented course will examine 1.7 billion years of Earth history in this region, including the Eocene plants and insects at Florissant fossil beds, volcanic rocks from the Thirty-nine Mile Volcanic Field, ore mineralization and mining in the Cripple Creek volcanic complex, incision of the Royal Gorge, sedimentary rock formation of the Canon City embayment, and the paleontology of the Jurassic dinosaurs of Garden Park. Basic concepts of geology pertaining to this region will be discussed, including the formation of rock types, volcanic processes, sedimentation and stratigraphy, tectonics, types of fossilization, major groups of fossil organisms from these sites, and the use of these fossils in reconstructing paleoenvironments. A two-day field trip examines fossils and geologic landscapes as a means for demonstrating these concepts. **This is a 2-day seminar, and participants are required to register for and attend both days. Each day's schedule will be 8:00 am to 5:30 pm, the first day beginning and ending at Florissant, and the second day in Canon City. The course is most suitable for**

science teachers or people with an interest in geology. A previous background in principles of geology is strongly recommended. The instructors and site specialists for this course are co-authors of the guidebook *Geology of the Gold Belt Byway, Colorado*, which is due for publication this year. Students are encouraged to purchase this guidebook for the field trip. Participants will need to include an additional \$3.00 with their registration in order to cover special admission costs during the field trips.

**THE WONDERS OF SOUTH PARK, Part 2: ANOTHER FIELD TRIP WITH AUTHOR DON MCGOOKEY (1/2 credit), July 17<sup>th</sup>, 9 am to 5 pm, Donald P. McGookey, PhD** – Last year, McGookey's excellent guidebook *Geologic Wonders of South Park, Colorado, With Road Logs*, had just been released, and he agreed to conduct a field trip to a portion of the vast intermountain basin that is South Park. This year, McGookey will lead another seminar to different areas and sites within the park. "A geologist is basically a historian, reading the history of the earth by studying information available in rocks and geologic structures. South Park is ideal in that the entire geologic column (2 billion years of history) is tilted to the east, eroded and now lies exposed for easy study." This one-day field trip will begin and end at Wilkerson Pass Visitor's Center on US 24, will proceed to the Hartsel area and continue to the gold mining district in Mosquito Gulch northwest of Fairplay. After a brief stop in Fairplay, several ridges of differing origin will be visited along US 285 (Hill north of Fairplay and Reinecker Ridge), followed by traversing the leading edge of the Elkhorn Thrust. Some of the roads are unpaved, but all are easily traversed by automobile. The group will carpool if possible to minimize the number of vehicles. McGookey's book is strongly recommended for the class and as a resource/reference to the geology of South Park. However, you needn't be a geologist, and a glossary of terms used will be provided for every participant prior to the class. Come prepared for an adventure and to view *time* as it's preserved in the rocks of the legendary South Park.

**ANCIENT LIFE AND LANDSCAPES OF FLORISSANT (1/2 credit) July 18<sup>th</sup>, 8:30 am to 5:00 pm, Herb Meyer, PhD** – This course investigates the geologic events that shaped the formation of the fossil-rich Florissant Formation. Basic concepts of geology relating to Florissant are discussed, including rock types, volcanoes, dating and stratigraphy. The geologic processes responsible for the formation of the fossil beds are examined in detail, including an overview of regional geologic history through the past 1.4 billion years, types of fossilization, the relation of the fossil beds to the Guffey volcanic center, and sedimentation patterns in the ancient lake. The paleontology of the fossil beds is discussed, including the types of plants and insects that were present, the use of fossils in reconstructing climate and elevation, and the preservation of fossils. A 2-hour field trip examines geologic features as a means for reinforcing these concepts. Handouts will be provided, and numerous slides will be shown. Both basic and advanced topics will be discussed, and it is recommended that students have a previous background in geology. The course is most suitable for science teachers or people with an interest in geology.

**MESSAGES IN STONE: Colorado's Geology as Revealed in the Rocks (1/2 credit) July 31<sup>st</sup>, 2004, 9:00 am to 5:00 pm, Vince Matthews, PhD, State Geologist of Colorado** – Have you wondered how the great, jutting rocks in Garden of the Gods were formed? Driven Ute Pass and marveled at the startling red rocks and how they change so abruptly, what dramatic events created their forms and colors? Vince Matthews, recently appointed the Colorado State Geologist, will explain the processes that resulted in these and other landforms. The morning portion of this seminar will be spent covering the geology and just such principles, and in seeing some of Colorado's spectacular scenery via stunning slides that will provide participants with birds-eye views that clearly illustrate the events discussed. Topics include the rocks and structures of Colorado, a brief review of Colorado's geologic history, Colorado's mineral wealth, and Colorado's geologic hazards. An afternoon field trip will visit volcanic, plutonic, metamorphic, and sedimentary rocks between Florissant and Garden of the Gods. The trip will end with a summary of the day's experience in Garden of the Gods.

**PARKS AS CLASSROOMS: USING FLORISSANT FOSSIL BEDS TO TEACH EARTH SCIENCE (1/2 credit) August 7<sup>th</sup>, 9 am to 5 pm, Bill Dexter, PhD, Laine Weber, MS, Jeff Wolin, MS** **PARKS AS CLASSROOMS: USING FLORISSANT FOSSIL BEDS TO TEACH EARTH SCIENCE (1/2 credit) August 7<sup>th</sup>, 9 am to 5 pm, Bill Dexter, PhD, Laine Weber, MS, Jeff Wolin, MS** Do you teach Earth science at the K-12 level? Are you interested in and want to know more about the geologic story at Florissant? Are you looking for new curriculum that is based on a real world example and correlates to the standards? This seminar might be for you! This seminar is a teacher workshop geared towards the K-12 teacher. It is designed to provide teachers with both the background and curriculum to teach Earth science based on the geologic story of Florissant Fossil Beds. Most of the morning will be dedicated to learning about the unique geological story of Florissant Fossil Beds and how it relates to general Earth science. Topics will include volcanism, plate tectonics, geologic processes, geologic time, erosion, fossilization, and much more. This will involve both lecture presentations as well as some hiking and hands-on activities. During the afternoon, participants



will explore a range of K-12 curriculum that has been developed by Colorado teachers and National Park Service staff. Participants will be exposed to a variety of activities and will participate in many of them. Ideally, participants will gain a more in-depth look at the geology and Earth science of Florissant. In addition, they will leave with specific activities and know how to access activities that bring the Earth science of Florissant to the classroom. Lastly, it is hoped that this seminar will provide enough knowledge that teachers could lead, with confidence, their own field trip to Florissant.

**WATER FROM THE EARTH: LIMITED RESOURCE, FUTURE CHALLENGE IN THE FRONT RANGE (1/2 credit) August 14<sup>th</sup>, 9 am to 5 pm, Bob Reynolds, PhD** – Reynolds' recent study revealed that the underground water sources for the Front Range are a non-renewable resource, are far less than previously thought, and will be more difficult to extract than previously thought. Yet human demand for what remains is increasing at an unprecedented rate. This non-technical class will first review the geologic framework of the Front Range area including South Park and the Denver Basin, drawing on recent multidisciplinary research results from the Denver Museum of Nature & Science. We will next consider the character and distribution of water resources in this region with an emphasis on the Front Range area. The seminar will review alluvial aquifers and surface water distribution patterns, then will focus more comprehensively on the bedrock aquifers of the El Paso and Douglas county areas. We will examine and evaluate the geological control on these aquifers and discuss the significance of the heterogeneous rock that makes them up – and the implications this carries for groundwater distribution patterns. While the class will present detailed geological models, no prior geological background is necessary. We will use maps, well data, paleontological information, and modern analogs to illustrate and illuminate the water stories beneath our feet. If you live and work in the Front Range and environs, you won't want to miss the implications of this seminar.

**FIRE ECOLOGY IN THE FRONT RANGE: Ecology and disturbance History of Front Range Forests and Fuels Treatment Options for the Urban Interface (1/2 credit) August 21<sup>st</sup>, 9 am to 5 pm, Wayne D. Shepperd, PhD, and Merrill R. Kaufmann, PhD.** – This seminar is an opportunity to learn more about the role of fire ecology and fire behavior from two highly recognized and respected experts in the fields of forestry and fire ecology. Participants will learn about the ecology of the ponderosa pine and other tree species of the Front Range and how current forest landscape conditions differ from those in the past. The morning will be spent in a series of illustrated lectures. In the afternoon, visiting areas of the Florissant Fossil Beds to observe, first-hand, forest conditions, learn about fire risk, and see what measures can be taken to restore forest structures that are ecologically sustainable and at less risk to disastrous crown fire. Opportunities to ask lots of questions and learn everything you've always wanted to know about fire in ecosystems. Fire as friend, fire as foe; seemingly a paradox, this seminar on fire ecology is a way of understanding how both are correct.



**LEWIS & CLARK AND THE CORPS OF DISCOVERY (1 full credit) August 28<sup>th</sup> and 29<sup>th</sup>, 9 am to 5 pm both days. Dan McCrimmon, MS, John Stansfield, MA, Carol Stansfield, MA, Robert (Bob) Callan, MS, Marilyn Callan** – The bicentennial (1804-1806) of the Long Journey of Lewis & Clark and the Corps of Discovery is under way all over America. This lively 2-day seminar will revisit many of the actual sites written of in the journals through slides and personal accounts. It will view replicas of items that would have been carried on the expedition and discuss some of the archetypal individuals who were a part of it. On Saturday, historian, teacher, storyteller, songwriter and

performer Dan McCrimmon will provide an introduction and an overview of the journey. He will relate what day to day living on the trail might have been like. McCrimmon will demonstrate primitive skills, show authentically made clothing of the period, display and demonstrate his Model 1803 Harper's Ferry rifled musket. He will tell stories, sing his own original songs written about the expedition and some of its members, capturing a spirit of time, place, and people. On Sunday, Carol and John Stansfield will recount their 2001 canoe trip on the Missouri River. They experienced some of the grand scenes the explorers saw and, by studying the Lewis and Clark journals, gained a sense of what days on the river were like in 1805. The Stansfields will discuss their trip preparations, display maps, show slides of the river voyage, and share pertinent readings from the journals. Bob and Marilyn Callan will relate why they decided in 1997 to re-trace some of the wildest portions of the route, and what they hoped to find in the present day. Bob will present a slide overview of the expedition. Marilyn will relate some of their experiences in tracing the trail over a five month period, showing slides of actual camping sites and locations mentioned in the

journals, many of them all but inaccessible and little known in the present, meeting Native Americans, and seeing plains covered with bison. The capstone of the Callans trip was meeting historian/author Stephen Ambrose and receiving his permission to videotape his presentation, part of which will be shown to the class. Weapons, a grizzly bear pelt (that will demonstrate just how formidable “these gentlemen” were), clothing, replicas and authentic trade items such as would have been part of the accoutrements of the company will be displayed. There will be handouts, a look at differing perspectives on the journey, insights into individual members of the party, and other participants with whom to share this interest in our first expedition to explore and map the country that had recently doubled in size. The last hour will feature a living history visit from a “leading member of the party” in an unforgettable climax to a 2-day evocation of an inspiring piece of our history

## INSTRUCTOR BIOGRAPHIES – 2004 SEMINARS

**Loya K. Cesspooch Arrum, BS**, earned her degree in Education from Weber State University, and has taught at Ross Elementary School for 17 years. Arrum is a member of the board of directors of the Native Voice Foundation. She is a registered member of the Uintah-Ouray Ute Reservation in Ft. Duchesne, Utah. Loya Arrum has worked with American Indian children (Ross School Native American Dancers), teaching them traditional dancing, traveling and performing with them for over ten years. Arrum also works with health education for Native American children arranging for them to experience skiing and snowboarding. Most importantly, she is an advocate for the Ute children, helping them understand their heritage in order that they may have a strong identity with their culture.

**Linda Beidleman, MA**, obtained her Masters degree in Biology from Rice University. She is co-author of *Plants of the San Francisco Bay Region*, *Plants of Rocky Mountain National Park*, and the *Annotated Bibliography of Colorado Vertebrate Zoology*. Linda has worked with the California native Plant Society and taught bird and/or botany short courses at Aspen Center for Environmental Studies, Colorado College, the University of California, Berkeley, Rocky Mountain National Park, as well as the Florissant Fossil Beds National Monument. With Dr. Beidleman, she has co-authored a number of winter bird population studies. The Beidleman's have taught seminars in The Natural History of the Florissant Valley and Birds of Florissant Valley over a number of years.

**Richard Beidleman, PhD**, an ecologist with a PhD from the University of Colorado, he has taught on the faculty at CSU, University of Colorado, and Colorado College, where he is now Professor Emeritus (Biology). He is currently a Research Associate at the University of California Herbarium (Berkeley) and an instructor of field courses at University of California, Aspen Center for Environmental Studies, Rocky Mountain National Park and the Florissant Fossil Beds National Monument. Dr. Beidleman has authored numerous publications including many on ecology, zoology, and American frontier naturalists, as well as co-authored *Plants of Rocky Mountain National Park* and *Annotated Bibliography of Colorado Vertebrate Zoology*. The Beidleman's were among the first instructors of seminars at Florissant Fossil Beds National Monument.



**Robert B. Callan, MS, BS**, earned his BS in Engineering from the US Military Academy at West Point, New York, and an MS in Electrical Engineering from the University of Illinois. He has had careers as an officer in the US Air Force as a pilot, and at Hughes Aircraft as an aerospace engineer directly involved in the space program, later serving as a consultant to Hughes. Once retired, Callan traveled, with wife Marilyn, throughout the western US, Canada and Alaska. Much of five years of traveling was spent in pursuing his strong interest in the history of the US. For five months in 1997 the Callans followed the trail of the Lewis & Clark expedition, particularly to remote sites along the trail. Callan lives in Florissant, Colorado, where he devotes much of his time to the study and discussion of world history, however that of the United States, particularly of the

Civil War, the West, and Native American subjects are his favored subjects. Callan pursues genealogy as he researches the history of his family relative to the Revolutionary, intervening, and Civil Wars.

**Marilyn Callan** has worked as a part-time interpretive Park Ranger and Park Guide for the National Park Service at the Florissant Fossil Beds National Monument for 4-1/2 years. She attended Modesto Junior College in Modesto, California, and California State University, Stanislaus, Turlock, California, with course work in Cultural Anthropology and Earth Sciences, and additionally in Social and Behavioral Sciences. She does not possess a degree. Callan worked as an independent California Historian specializing in the Mother Lode and development of Yosemite, mentored by eminent historians and teachers. She has published articles on history and ethnobotany, and has completed a full body of research as a manuscript on the Coulterville Toll Road to Yosemite. She was a founder of the Northern Mariposa County History Center and Museum in Coulterville, California. Callan has been an ethnographer and oral historian with several tribal groups in Eastern California and in Nevada. Her non-formal and non-traditional education is in the natural sciences and Native American subjects and is largely experiential and self-taught. Callan has led independent natural history and ethnobotany day trips in the Sierra Nevada and at Mono Lake in California, and on Orcas Island in the state of Washington for a historic resort.

**William A. “Bill” Dexter, PhD**, earned his Doctorate in Astrophysics in Minnesota, an MS in Earth Sciences and a BS in Biological sciences from Ohio State. Dexter is a former college professor retired from Richland College and the University of Texas at Dallas. He has taught astronomy, earth and physical sciences, written textbooks and scientific publications. The William A. Dexter Astronomical Observatory in Dallas is named in his honor. Dexter served as seasonal paleontologist at the monument, is past president and currently an active board member for the Friends of the Florissant Fossil Beds National Monument.

**Curt Fair, MA, BA**, is the Pike Zone Archaeologist of the Pike and San Isabel National Forests, Comanche and Cimarron National Grassland. His formal education is from Sacramento State University at Sacramento, California where he received his Bachelor of Arts Degree in Anthropology (Archaeology/Cultural Anthropology) with a minor in ethnic studies (Native American concentration) and graduate studies from California State University Sacramento in Anthropology/Archaeology. His professional career consists of 9-1/2 years as both district and Zone Archaeologist for the Modoc National Forest in Northeastern California and 5 years as the Pike Zone archaeologist in Colorado. Fair has been a traditional flintknapper for over 20 years.

**Dan McCrimmon, MS, BA**, earned his BA (Degree with Honors) in Language Arts Education from the University Without Walls, Loretto Heights College (now Regis University), Denver, Colorado, and his M.S. (Degree with Distinction) in American Studies with an emphasis on historic interpretation and outdoor museum management from Utah State University in Logan Utah. He is a licensed teacher/advisor at Jefferson County Open School. A fourth-generation Coloradan, McCrimmon has been a professional musician and storyteller all his adult life and as a composer and performer has six record albums, tapes and CDs of original songs to his credit. McCrimmon travels widely as a featured performer at National and State Storytelling Festivals. In addition, he is qualified as an interpreter at Bent's Old Fort National Historic Park and Fort Laramie National Historic Park. He lives in Littleton, Colorado.

**Donald P. McGookey, PhD**, earned a Bachelor's degree from Bowling Green State University, a Masters from the University of Wyoming, and a PhD at the Ohio State University. His career encompassed employment for Texaco, Inc., with assignments in the Rocky Mountains and in New York (International Exploration) and as chief geologist in Houston, Texas. He is currently an independent geologist. Don's interest in South Park stems from his family having owned property there for many years. Much of the geologic column is visible from their cabin. He has lectured locally on lode and placer gold, glaciation, and the Guffey Volcano, and has authored a 2003 book *Geologic Wonders of South Park, Colorado, with Road Logs*, which is the basis for his seminar.

**Vince Matthews, PhD**, is the State Geologist and Director of the Colorado Geological Survey. He received a PhD in Geology at the University of California, an MS in Geology at the University of Georgia, and a BS in Geology at the University of Georgia. He is the recipient of numerous professional honors, has served as a Professor of Geology at the University of Texas of the Permian Basin, and Arizona State University at Tempe, Arizona. He has served as a geologist, field geologist, lecturer, and Exploration Manager for Petroleum companies. Matthews has both supported research and published, extensively.

**Herbert W. Meyer, PhD**, is the paleontologist at Florissant Fossil Beds National Monument. Meyer surveys Florissant fossil collections at major museums to develop a paleontological database website, publishes research articles and books, and oversees paleontological resource management. His PhD was earned from the University of California, Berkeley, as were MA and AB (Honors) degrees in Paleontology. He is the author of the 2003 *The Fossils of Florissant*, Smithsonian Books. Meyer leads field trips for scientific societies and serves as paleobotanical specialist for other agencies and for international conservation in Peru and China.

**Robert G. Reynolds, PhD**, has a BA from Dartmouth College, an MA from Stanford University, and a PhD from Dartmouth College. He is currently a Research Associate with the Denver Museum of Nature & Science and is a member of the adjunct faculties of the University of Colorado, Boulder, and the Colorado School of Mines. Reynolds is Co-Principal Investigator on a three year National Science Foundation funded project to examine the synorogenic stratigraphy of the Denver Basin, coordinating a multi-institutional research effort under the aegis of the Denver Museum of Nature & Science. He has taught at a number of colleges and universities, and done fieldwork on an international level, as well as authored numerous publications and conducted lectures on the geology and water resources of the Denver Basin.

**Leigh Robertson, BS**, is the author of the Falcon Guidebook *Southern Rocky Mountain Wildflowers*. She has a degree in Natural Resources from Ohio State University. Robertson has worked as a park naturalist for the U.S. Forest Service, The Nature Conservancy, and El Paso County Parks. Most recently, Robertson was the Interpretive Program Supervisor for the City of Colorado Springs at Garden of the Gods Park and on Pikes Peak. She currently works as a researcher and writer. Leigh has previously led popular wildflower seminars at the Fossil Beds.



**Wayne D. Shepperd, PhD**, is a Research Silviculturist at the U.S. Forest Service Rocky Mountain Research Station in Fort Collins, Colorado. He is also administrator of the Manitou Experimental Forest near Woodland Park, Colorado. He holds a BS in Outdoor Recreation, and MS and PhD degrees in Silviculture from Colorado State University. A Colorado native, Dr. Shepperd has been with the Forest Service since 1969. The author of over 70 research publications, he is a recognized expert of the ecology, growth, and management of Rocky Mountain Forests. His current research includes fire, fuels, vegetation and management studies in the Colorado Front Range, North Kaibab Plateau in Arizona, and the Black Hills of South Dakota.

**Carol Stansfield, M.A.** is co-founder and co-lead teacher at the School in the Woods, a public school for fourth grade naturalists in Colorado Springs, Colorado. Carol has a Masters Degree in Outdoor Education from Penn State, and has spent the last thirty years helping young people to learn in, about, and from the natural world.



**John Stansfield, MA**, is a storyteller and writer who began exploring the North American West and its nature literature as a boy and has never stopped. He loves hiking and skiing the west and telling stories about its diverse lands, wildlife, and people. With the desire to bring people together to share the lore of the region, Stansfield founded the Rocky Mountain Storytelling Festival in 1989. A former elementary school teacher, he teaches storytelling and other subjects on the adjunct faculty of the University of Colorado, Colorado Springs. He has a BA in English from Holy Cross College in Wooster, Massachusetts, and an MA in Teaching from Emory University in Atlanta, Georgia. Stansfield is the author of *Writers of the American West: Multicultural Learning Encounters*, published by Teacher Ideas Press.

**Laine Weber, BA MA**, is currently a middle school earth science teacher at Woodland Park Middle School in Woodland Park, Colorado. She received a BA in Environmental Biology from the University of Colorado in Boulder and an MA in Education from Colorado College in Colorado Springs. She has worked for Florissant Fossil Beds N.M. since 1988 where she has written extensive curriculum for the National Park Service. She is also a Board Member on the Friends of the Florissant Fossil Beds.

**Jeff Wolin MA** is currently a Park Ranger at Florissant Fossil Beds N.M. During his ten years with the National Park Service, Jeff has worked for Canyonlands, Grand Canyon, Wind Cave, Bryce Canyon, Isle Royale, and the Everglades National Parks. Jeff received a B.A. in Geography at the University of Illinois and in 2002 completed an M.A. in Environmental Education from Prescott College in Arizona. He currently resides in Woodland Park, Colorado.

## Friends of the Florissant Fossil Beds, Inc.

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Mail completed forms with payment to:

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Full Name: \_\_\_\_\_ (Last) \_\_\_\_\_ (First) \_\_\_\_\_ (Middle) \_\_\_\_\_ Previous Name \_\_\_\_\_

Mailing Address: \_\_\_\_\_ (Street - P.O. Box) \_\_\_\_\_ (City) \_\_\_\_\_ (State) \_\_\_\_\_ (ZIP) + 4  
Have you previously enrolled at Adams State College? ☐ Yes ☐ No Have you lived in Colorado continuously for the past 12 months? ☐ Yes (Colo. Resident) ☐ No (Non-Resident)

If yes, term and year last enrolled \_\_\_\_\_  
I would prefer to access my grade for this course online rather than by mail: ☐ Yes ☐ No

You must have at least a BA/BS to register for a course numbered 500 or above  
I have the following: ☐ No Degree ☐ BA/BS ☐ MA ☐ Doctorate

I am taking this course for: ☐ Graduate credit ☐ Undergraduate credit (Approval Required)

Ethnicity: (Mark any that apply)  
☐ American Indian or Alaskan Native ☐ Asian or Pacific Islander  
☐ Black, not of Hispanic origin ☐ Caucasian/White, not of Hispanic Origin  
☐ Hispanic ☐ I do not wish to provide this information

Off-Campus Course for which you are registering:

Prefix and Number \_\_\_\_\_

Title of Class \_\_\_\_\_

Instructor \_\_\_\_\_ Credit Hours \_\_\_\_\_  
Location of Class \_\_\_\_\_ ASC Tuition \_\_\_\_\_

\*\*I understand that if an Incomplete grade is awarded, the incomplete grade will change to an "F" grade exactly one year from the registration date unless an earlier date is specified by my instructor.\*\*  
I understand that if I have registered for hours in excess of 20 within this term, I must acquire Extended Studies approval prior to registration for this course.  
I understand that I must fulfill the residence requirement in effect for any special degree or certificate.  
I understand that if this class is to be used in a degree program, approval must be secured from the student's assigned academic advisor.  
I hereby request admission to Adams State College as an Extended Studies (non-certificate or non-degree bound) student. I understand that if I wish official admission to a degree program, I must submit a regular application. I certify that all information (including Selective Service) I have provided is true.

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